

What is claimed is:

1. (Currently Amended) A method for decoding an encoded video data stream, the method comprising:

(a) receiving at a decoder, a first portion of an encoded two-dimensional block of pixel data immediately followed by a second encoded two-dimensional block of pixel data, the second block followed by another portion of the encoded two-dimensional block of pixel data;

(b) generating a concatenated video data stream, wherein the portion of the first portion of the encoded two-dimensional block of pixel data is immediately followed by the another portion of the encoded two-dimensional block of pixel data; and

(c) decoding the concatenated video data stream;

wherein the receiving further comprises:

storing the first portion of the encoded two-dimensional block of pixel data in a first memory region; and

storing the second encoded two-dimensional block of pixel data in the first region of memory; and

storing the another portion of the encoded two-dimensional block of pixel data in a second region of memory;

wherein storing the first portion of the encoded data and the second portion of the encoded data further comprises:

storing the first portion and the second portion of the encoded two-dimensional block of pixels or the second encoded two-dimensional block of pixel data in the first region until either a predetermined number of bytes of the first or second portion are stored in the first region or an end of block indicator is received; and

if an end of block indicator is received storing the remainder first portion and the second portion of the encoded two-dimensional block of pixels or the second encoded two-dimensional block of pixel data;

wherein the generating a concatenated encoded video stream comprises:

(b1) serially outputting from the first memory region to a concatenator until either the predetermined number of bytes are received or the end of block indicator is received;

(b2) if the predetermined number of bytes is serially output during step b1, serially outputting from the second memory region to the concatenator until an end of block indicator is received; and

(b3) repeating steps b1 and b2.

2-7. (Cancelled)

8. (Original) The method according to claim 1, further comprising:

(d) receiving input from the decoder, the input associated with the size of the decoded video data stream.

9. (Original) The method according to claim 8, wherein the input determines the amount of concatenated video data stream to be serially outputted to the decoder.

10. (Previously Presented) A system for decoding an encoded video data stream, the data stream comprising a plurality of encoded blocks of data pixels and a plurality of end of block indicators, the system comprising:

an input for receiving the encoded video data stream comprising the plurality of encoded blocks of data pixels and the plurality of end of block indicators;

a first memory buffer for storing either portions of the encoded video data stream of predetermined size or until the portions of the encoded video data stream until the portions include an end of block indicator received at the input;

a second memory buffer for storing remainders of portions when the portions include an end of block indicator received at the input;

a concatenator for concatenating from the first memory buffer and the second memory buffer, wherein the

concatenator serially outputs data from the first memory buffer until either a predetermined number of bytes are serially output or an end of block is encountered and if the predetermined number of bytes are serially output from the first buffer, serially outputting from the second buffer until an end of buffer indicator is received, to obtain a concatenated video data stream; and

a decoder for decoding the concatenated video data stream.

11-14. (Cancelled)

15. (Original) The system of claim 10, wherein the first memory buffer is configured to save at least one of an indicator flag and a data size information, the indicator flag having an active state and an inactive state.

16. (Original) The system of claim 15, wherein the indicator flag is activated if the first memory buffer is full.

17. (Original) The system of claim 15, wherein the data size information comprises a data size of the second portion.

18-21. (Cancelled)

22. (Original) The system of claim 10, wherein the decoder provides input, the input associated with the size of the decoded video data stream.

23. (Original) The system of claim 22, wherein the input from the decoder determines the amount of concatenated video data stream to be serially outputted to the decoder.